844-2852 CHROMA-CHEM®ORGANIC YELLOW

Version Number: 08

Specification: 000000139148 Revision Date: 04-24-2017



1. Identification

Product identifier 844-2852 CHROMA-CHEM®ORGANIC YELLOW OY

OY

Other means of identification

SAP Specification 000000139148

Recommended use Non-aqueous colorant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Chromaflo Technologies Corporation

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Ashtabula, OH, USA 44005-0816

Canadian facility Chromaflo Technologies Canada

235 Orenda Road

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3E CONTRACT # 12154 **3E ACCESS CODE** 334294

CANADA: CANUTEC 613-996-6666

EMERGENCY NUMBER

Product Regulatory

Services

ehs americas@chromaflo.com

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsGerm cell mutagenicityCategory 1BCarcinogenicityCategory 2

Reproductive toxicity Category 2

Specific target organ toxicity, repeated

exposure

Not classified.

Label elements

OSHA defined hazards



Signal word Danger

Hazard statement Flammable liquid and vapor. May cause genetic defects. Suspected of damaging fertility or the

unborn child. Causes damage to organs (central nervous system) through prolonged or repeated

Category 1 (central nervous system)

exposure.

Material name: 844-2852 CHROMA-CHEM®ORGANIC YELLOW OY
000000139148 Version #: 08 Revision date: 04-24-2017 Issue date: 12-23-2013

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Wear protective gloves/protective

clothing/eye protection/face protection.

Response If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to

extinguish.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 94% of the mixture consists of component(s) of unknown acute dermal toxicity. If product is in

liquid or paste form, hazards related to dust are not considered significant. But product may contain substances that could be potential hazards if caused to become airborne due to abrasive

processes.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---|--------------------------|------------|----------|
| 2-methoxy-1-methylethyl acetate | | 108-65-6 | 20 - 40 |
| Distillates (petroleum), hydrotreat light | ed | 64742-47-8 | 2.5 - 10 |
| Solvent naphtha (petroleum), medium aliph.; Straight run kerosine | | 64742-88-7 | 2.5 - 10 |
| Titanium dioxide | | 13463-67-7 | 1 - 2.5 |
| xylene | | 1330-20-7 | 1 - 2.5 |
| ethylbenzene | | 100-41-4 | 0.1 - 1 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contactTake off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Narcosis. Behavioral changes. Decrease in motor functions. Direct contact with eyes may cause

temporary irritation. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

General information Take off all contaminated clothing immediately. IF exposed or concerned: Get medical

advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing

before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

 Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

uipment/instructions so without ri

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type ` | Value | Form |
|--|--------|----------------------|-------------|
| Distillates (petroleum), hydrotreated light (CAS 64742-47-8) | PEL | 400 mg/m3 | |
| • | | 100 ppm | |
| ethylbenzene (CAS 100-41-4) | PEL | 435 mg/m3 | |
| , | | 100 ppm | |
| Titanium dioxide (CAS 13463-67-7) | PEL | 15 mg/m3 | Total dust. |
| xylene (CAS 1330-20-7) | PEL | 435 mg/m3 100 ppm | |

| Components | Туре | Value | Form |
|---|-----------------------------|-----------|----------------------|
| Titanium dioxide (CAS 13463-67-7) | TWA | 5 mg/m3 | Respirable fraction. |
| , | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |
| US. ACGIH Threshold Limit Value | S | | |
| Components | Туре | Value | Form |
| ethylbenzene (CAS 100-41-4) | TWA | 20 ppm | |
| Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7) | TWA | 200 mg/m3 | Non-aerosol. |
| Titanium dioxide (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| xylene (CAS 1330-20-7) | STEL | 150 ppm | |
| | TWA | 100 ppm | |
| US. NIOSH: Pocket Guide to Chen | nical Hazards | | |
| Components | Туре | Value | |
| ethylbenzene (CAS 100-41-4) | STEL | 545 mg/m3 | |
| | | 125 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7) | TWA | 100 mg/m3 | |
| US. AIHA Workplace Environment | al Exposure Level (WEEL) Gu | ides | |
| Components | Туре | Value | |
| 2-methoxy-1-methylethyl | TWA | 50 ppm | |

Biological limit values

acetate (CAS 108-65-6)

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|--------------------------------|----------|---|---------------------|---------------|
| ethylbenzene (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | * |
| xylene (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

2-methoxy-1-methylethyl acetate (CAS 108-65-6)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Solvent naphtha (petroleum), medium aliph.; Straight run Can be absorbed through the skin.

kerosine (CAS 64742-88-7)

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

 Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Contaminan

9. Physical and chemical properties

Appearance

Physical stateLiquid.FormLiquid.ColorYellow

Odor Not available.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling

range

> 289.4 °F (> 143 °C)

Flash point 116.0 °F (46.7 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.1

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Explosive propertiesNot explosive. **Oxidizing properties**Not oxidizing.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition

Strong acids. Strong oxidizing agents. Halogens. No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Narcosis. Behavioral changes. Decrease in motor functions.

6350 mg/l, 4 Hours

3523 - 8600 mg/kg

Information on toxicological effects

Acute toxicity Not known.

| Components | Species | Test Results | | |
|-----------------------------|------------------------|--------------|--|--|
| ethylbenzene (CAS 100-41-4) | | | | |
| <u>Acute</u> | | | | |
| Dermal | | | | |
| LD50 | Rabbit | 17800 mg/kg | | |
| Oral | | | | |
| LD50 | Rat | 3500 mg/kg | | |
| xylene (CAS 1330-20-7) | xylene (CAS 1330-20-7) | | | |
| <u>Acute</u> | | | | |
| Dermal | | | | |
| LD50 | Rabbit | > 43 g/kg | | |
| Inhalation | | | | |

Rat

Rat

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

LC50

Oral LD50

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

Germ cell mutagenicity May cause genetic defects. Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans. Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Components in this product have been shown to cause birth defects and reproductive disorders in Reproductive toxicity

laboratory animals. Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -Causes damage to organs (central nervous system) through prolonged or repeated exposure.

repeated exposure

^{*} Estimates for product may be based on additional component data not shown.

Aspiration hazard Not an aspiration hazard.

Chronic effectsCauses damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Product | | Species | Test Results |
|-------------------------|----------------------|---|----------------------------------|
| 844-2852 CHROMA-C | CHEM®ORGANIC Y | /ELLOW OY | |
| Aquatic | | | |
| Crustacea | EC50 | Daphnia | 88.6122 mg/l, 48 hours estimated |
| Fish | LC50 | Fish | 73.555 mg/l, 96 hours estimated |
| Components | | Species | Test Results |
| Distillates (petroleum) | , hydrotreated light | (CAS 64742-47-8) | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) | 2.7 - 5.1 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.9 mg/l, 96 hours |
| ethylbenzene (CAS 10 | 00-41-4) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.37 - 4.4 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 7.5 - 11 mg/l, 96 hours |
| Titanium dioxide (CAS | 3 13463-67-7) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 1000 mg/l, 48 hours |
| Fish | LC50 | Mummichog (Fundulus heteroclitus) | > 1000 mg/l, 96 hours |
| xylene (CAS 1330-20- | -7) | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 7.711 - 9.591 mg/l, 96 hours |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

 ethylbenzene
 3.15

 xylene
 3.12 - 3.2

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN1263

UN proper shipping name Paint related material Transport hazard class(es) 3 Class Subsidiary risk 3 Label(s) Ш Packing group Special precautions for user Read safety instructions, SDS and emergency procedures before handling. B1, B52, IB3, T2, TP1, TP29 **Special provisions** Packaging exceptions 150 Packaging non bulk 173 Packaging bulk 242 **DOT BULK BULK UN** number UN1263 **UN** proper shipping name Paint related material Transport hazard class(es) Class 3 3 Label(s) Ш Packing group Special precautions for user Read safety instructions, SDS and emergency procedures before handling. B1, B52, IB3, T2, TP1, TP29 Special provisions Packaging exceptions 150 Packaging non bulk 173 Packaging bulk 242 IATA **UN** number UN1263 Paint related material **UN proper shipping name** Transport hazard class(es) 3 Class Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3L Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Other information Passenger and cargo Allowed with restrictions. aircraft Cargo aircraft only Allowed with restrictions. **IMDG**

UN1263 **UN** number

UN proper shipping name

Transport hazard class(es)

PAINT RELATED MATERIAL

3 Class Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant No. **EmS** F-E, S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not established.

DOT; DOT Bulk packaging type



IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the US OSHA Hazard Communication

Standard and the Canadian Hazardous Products Regulation.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ethylbenzene (CAS 100-41-4) Listed. xylene (CAS 1330-20-7) Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|------------------------|------------|----------|--|
| ETHYLBENZENE | 100-41-4 | 0.1 - 1 | |
| Xylene (mixed isomers) | 1330-20-7 | 1 - 2.5 | |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ethylbenzene (CAS 100-41-4) xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ethylbenzene (CAS 100-41-4) Listed: June 11, 2004

Silica, crystalline (quartz) (CAS 14808-60-7) Listed: October 1, 1988 Titanium dioxide (CAS 13463-67-7) Listed: September 2, 2011

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

ethylbenzene (CAS 100-41-4)

Solvent naphtha (petroleum), medium aliph.; Straight run kerosine (CAS 64742-88-7)

Titanium dioxide (CAS 13463-67-7)

xylene (CAS 1330-20-7)

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |
| Taiwan | Taiwan Toxic Chemicals Substances Control Act | No |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

16. Other information, including date of preparation or last revision

Issue date 12-23-2013 **Revision date** 04-24-2017

Version # 08

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obtaining any required licenses.

This document has undergone significant changes and should be reviewed in its entirety. **Revision information**

Material name: 844-2852 CHROMA-CHEM®ORGANIC YELLOW 000000139148 Version #: 08 Revision date: 04-24-2017 Issue date: 12-23-2013

country(s).